**Use Case Name:** Generate Report of Offences by Roads Most in Violation

**Participating Actor:** Supervisor

**Entry Conditions:**

1. The supervisor needs to create a report
2. The create report function of the system has been invoked.

**Flow of Events:**

1. The system responds by displaying the “Create Report” screen which requests the following information:

* Weekly report
* Monthly report
* Quarterly report
* Annual report

2. The supervisor selects from the options: weekly report, monthly report, quarterly report, annual report, and submits the information.

3. The system responds by displaying the “Data Source” screen which requests the following information:

* By offense
* By penalty points.

4. The supervisor responds by selecting by offense.

5. The system responds by displaying the “Report filter” screen, which prompts for the following options:

* By county with national summary
* By age (in 10 year intervals)

6. The supervisor selects the appropriate filter and submits the selection

7. The system responds by displaying the data in tabular form by default, populating the table with the following:

7.1. Offenses committed per county/by age in the past week/month/quarter/year.

7.2. Penalty points issued per county/by age in the past week/month/quarter/year.

The system also displays a print option. The system also displays options for viewing the data (Data visualisation) in the following formats:

* Graph
* Histogram
* Bar chart
* Pie chart
* Table

1. The supervisor responds by selecting a view (Graph/Histogram/Bar Chart/Pie Chart/Table) and submits the choice.
2. The system responds by
   1. Displaying the data as a colour coded Graph.
   2. Displaying the data as a colour coded Histogram
   3. Displaying the data as a colour coded Bar Chart
   4. Displaying the data as a colour coded Pie Chart
   5. Displaying the data as a table.

And the system also displays a print option. The system also displays options for viewing the data in the formats listed above.

1. The supervisor clicks the print button
2. The system responds by executing the print function of the system

**Exit Conditions:** The supervisor has created a report, with the correct information visualised in a suitable format.